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=> file ca

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=> s (s. aureus or staphylococcus aureus)/bi,ab

```
1952972 S/BI
  41021 AUREUS/BI
  11713 S. AUREUS/BI
    ((S(W)AUREUS)/BI)
1807098 S/AB
  36560 AUREUS/AB
  11603 S. AUREUS/AB
    ((S(W)AUREUS)/AB)
  45940 STAPHYLOCOCCUS/BI
  41021 AUREUS/BI
  36750 STAPHYLOCOCCUS AUREUS/BI
    ((STAPHYLOCOCCUS(W)AUREUS)/BI)
  33072 STAPHYLOCOCCUS/AB
  36560 AUREUS/AB
  27505 STAPHYLOCOCCUS AUREUS/AB
    ((STAPHYLOCOCCUS(W)AUREUS)/AB)
```

L1 38123 (S. AUREUS OR STAPHYLOCOCCUS AUREUS)/BI,AB

=> s l1 and (hexahydro beta acid or hexahydro beta salt or tetrahydroiso alpha acid or tetrahydroiso salt)bi,ab

MISSING OPERATOR SALT)BI,AB

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s l1 and (hexahydro beta acid or hexahydro beta salt or tetrahydroiso alpha acid or tetrahydroiso salt)/bi,ab

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11126 HEXAHYDRO/BI
1009964 BETA/BI
2968763 ACID/BI
```

```

      0 HEXAHYDRO BETA ACID/BI
        ((HEXAHYDRO(W) BETA(W) ACID) /BI)
    6236 HEXAHYDRO/AB
    893678 BETA/AB
    2053735 ACID/AB
      0 HEXAHYDRO BETA ACID/AB
        ((HEXAHYDRO(W) BETA(W) ACID) /AB)
    11126 HEXAHYDRO/BI
    1009964 BETA/BI
    536217 SALT/BI
      0 HEXAHYDRO BETA SALT/BI
        ((HEXAHYDRO(W) BETA(W) SALT) /BI)
    6236 HEXAHYDRO/AB
    893678 BETA/AB
    409587 SALT/AB
      0 HEXAHYDRO BETA SALT/AB
        ((HEXAHYDRO(W) BETA(W) SALT) /AB)
    79 TETRAHYDROISO/BI
    1173645 ALPHA/BI
    2968763 ACID/BI
      4 TETRAHYDROISO ALPHA ACID/BI
        ((TETRAHYDROISO(W) ALPHA(W) ACID) /BI)
    71 TETRAHYDROISO/AB
    1030274 ALPHA/AB
    2053735 ACID/AB
      2 TETRAHYDROISO ALPHA ACID/AB
        ((TETRAHYDROISO(W) ALPHA(W) ACID) /AB)
    79 TETRAHYDROISO/BI
    536217 SALT/BI
      0 TETRAHYDROISO SALT/BI
        ((TETRAHYDROISO(W) SALT) /BI)
    71 TETRAHYDROISO/AB
    409587 SALT/AB
      0 TETRAHYDROISO SALT/AB
        ((TETRAHYDROISO(W) SALT) /AB)
L2      0 L1 AND (HEXAHYDRO BETA ACID OR HEXAHYDRO BETA SALT OR
TETRAHYDRO      ISO ALPHA ACID OR TETRAHYDROISO SALT) /BI,AB

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=> file uspatfull, embase, medline, biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	46.88	47.03

FILE 'USPATFULL' ENTERED AT 20:42:05 ON 30 AUG 2001
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=> d his

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FILE 'CA' ENTERED AT 20:37:08 ON 30 AUG 2001
L1      38123 S (S. AUREUS OR STAPHYLOCOCCUS AUREUS) /BI,AB
L2      0 S L1 AND (HEXAHYDRO BETA ACID OR HEXAHYDRO BETA SALT OR
TETRAHY

```

=> s 12

'AB' IS NOT A VALID FIELD CODE
L3 0 L2

=> s (hexahydro beta acid or hexahydro beta salt or tetrahydroiso alpha acid
or tetrahydroiso salt)/bi,ab

'AB' IS NOT A VALID FIELD CODE
L4 4 (HEXAHYDRO BETA ACID OR HEXAHYDRO BETA SALT OR TETRAHYDROISO
ALPHA ACID OR TETRAHYDROISO SALT)/BI,AB

=> d 1-4 bib,ab

L4 ANSWER 1 OF 4 USPATFULL
AN 1999:24849 USPATFULL
TI Concentrated single phase aqueous solutions of tetrahydroiso-.alpha.-
acids and methods of preparing the same
IN Ting, Patrick L., Brookfield, WI, United States
Goldstein, Henry, Brookfield, WI, United States
PA Miller Brewing Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5874633 19990223
AI US 1996-739910 19961030 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Hutzell, Paula K.; Assistant Examiner: Masood, Khalid
LREP Quarles & Brady
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 325
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A concentrated single phase aqueous alkaline solution of
tetrahydroiso-.alpha.-acids having greater than 10% to about 45% w/w
tetrahydroiso-.alpha.-acids is disclosed. A method of hydrogenating and
formulating a starting solution of iso-.alpha.-acids to obtain such
concentrated solutions of tetrahydroiso-.alpha.-acids is also
disclosed.

L4 ANSWER 2 OF 4 USPATFULL
AN 75:65759 USPATFULL
TI Production of hoplike beverage bittering materials
IN Worden, Leonard R., Kalamazoo, MI, United States
PA Kalamazoo Spice Extraction Company, Kalamazoo, MI, United States (U.S.
corporation)
PI US 3923897 19751202
AI US 1973-346741 19730402 (5)
DT Utility
FS Granted
EXNAM Primary Examiner: Morgenstern, Norman
LREP Hueschen, Gordon W.
CLMN Number of Claims: 15
ECL Exemplary Claim: 1,7
DRWN No Drawings
LN.CNT 639
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Production of hoplike beverage bittering materials by the peracid
oxidation of 3',5'-dialkyl-2',4',6'-trihydroxyacylphenones to
6-acyl-2,4-dialkyl-2-hydroxycyclohexane-1,3,5-triones
(tetrahydrohumulones or tetrahydro-alpha acids) and isomerization

thereof to 2,4-diacyl-5-alkyl-4-hydroxycyclopentane-1,3-diones (tetrahydroisohumulones or tetrahydroiso-alpha acids).

Chart i: conversion of beta acids into flavoring materials in the tetrahydro-alpha acids family ##SPC1##

3',5'-dialkyl-2',4',6'-trihydroxyacylphenones (desoxytetrahydro-alpha acids) ##SPC2##

6-acyl-2,4-dialkyl-2-hydroxycyclohexane-1,3,5-triones (tetrahydrohumulones) (tetrahydro-alpha acids) ##SPC3##

2,4-diacyl-5-alkyl-4-hydroxycyclopentane-1,3-diones (tetrahydroiso-alpha acids) (tetrahydroisohumulones)

R.sup.1, R.sup.2, and R.sup.3 are various alkyl groups which may or may not be identical, e.g., in the formulas above, if R.sup.2 = R.sup.3 = CH.sub.2 CH.sub.2 CH(CH.sub.3).sub.2 = isopentyl and R.sup.1 = --CH.sub.2 CH(CH.sub.3).sub.2 = isobutyl, the compound I becomes desoxytetrahydrohumulone = 3',5'-diisopentyl-2',4',6'-trihydroxyisovalerophenone and III becomes tetrahydroisohumulone.

Similarly, when R.sup.2 and R.sup.3 are isopentyl and R.sup.1 is --CH(CH.sub.3)CH.sub.2 CH.sub.3 or --CH(CH.sub.3).sub.2, the starting material (I) is respectively desoxytetrahydroadhumulone and desoxytetrahydrocophumulone, the intermediates II become tetrahydroadhumulone and tetrahydrocophumulone, and the end products III become tetrahydroisoadhumulone and tetrahydroisocophumulone.

For clarity, it should be stated here that desoxytetrahydro-alpha acids are herein designated by I and may also be designated a 3',5'-dialkyl-2',4',6'-trihydroxyacylphenone, that the intermediate tetrahydrohumulone is herein designated by II and may also be designated

a tetrahydro-alpha acid or a 6-acyl-2,4-dialkyl-2-hydroxycyclohexane-1,3,5-trione, and that the ultimate end product, the tetrahydroisohumulone, is herein designated III and may sometimes be designated a **tetrahydroiso-alpha acid** or a 2,4-diacyl-5-alkyl-4-hydroxycyclopentane-1,3-dione. Moreover, sometimes the terms "alpha acids" and "iso-alpha acids" are employed herein without the "tetrahydro" prefix, without any intention, however, to define a different material when such abbreviation is employed. Such abbreviation, when employed, will be apparent to one skilled in the

art.

To conform with current nomenclature practice, lupulones are usually referred to herein as beta acids; tetrahydrohumulones (II) as tetrahydro-alpha acids; and tetrahydroisohumulones (III) as tetrahydroiso-alpha acids. It should be recognized, however, that the terms alpha acids, "beta acids," and "iso-alpha acids" are used herein in a generic sense and are not meant to limit the various alkyl groups R.sup.1, R.sup.2, and R.sup.3 (Chart I) to groups found in naturally-occurring substances, the present invention being equally applicable to synthetically derived materials.

L4 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1994:255925 BIOSIS

DN PREV199497268925

TI Differences in ultraviolet absorbance of **tetrahydroiso-alpha-acid** components.

AU Hay, Bruce A.; Homiski, John W.; Howie, Jack L.

CS Pfizer Cent. Res., Groton, CT 06340 USA

SO Journal of the American Society of Brewing Chemists, (1994) Vol. 52, No. 2, pp. 54-56.

ISSN: 0361-0470.

DT Article
LA English

L4 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1991:454197 BIOSIS

DN BA92:98977

TI A SIMPLIFIED METHOD FOR SYNTHESIS OF **TETRAHYDROISO-ALPHA-ACID** STANDARDS FOR HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY.

AU HAY B A; HOMISKI J W; PRIEST M A

CS PFIZER CENTRAL RESEARCH, GROTON, CT 06340, USA.

SO J AM SOC BREW CHEM, (1991) 49 (3), 115-118.

CODEN: JSBCD3. ISSN: 0361-0470.

FS BA; OLD

LA English

AB A simplified method for synthesis of pure **tetrahydroiso-.alpha.-acid** homologs for use as high-performance liquid chromatography standards was developed. The synthesis involved converting phloroglucinol to .beta.-acids followed by hydrogenation to 4-desoxytetrahydro-.alpha.-acids, oxidation to tetrahydro-.alpha.-acids, and isomerization to tetrahydroiso-.alpha.-acids. Carbon and proton nuclear magnetic resonance spectra of the standards showed that each consisted of a single isomer. The standards were assigned the cis configuration based on a comparison of the carbon nuclear magnetic resonance spectra with those of the isohumulones.

=> d his

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FILE 'CA' ENTERED AT 20:37:08 ON 30 AUG 2001

L1 38123 S (S. AUREUS OR STAPHYLOCOCCUS AUREUS)/BI,AB

L2 0 S L1 AND (HEXAHYDRO BETA ACID OR HEXAHYDRO BETA SALT OR TETRAHY

FILE 'USPATFULL, EMBASE, MEDLINE, BIOSIS' ENTERED AT 20:42:05 ON 30 AUG 2001

L3 0 S L2

L4 4 S (HEXAHYDRO BETA ACID OR HEXAHYDRO BETA SALT OR TETRAHYDROISO

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